PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) REC'D 2 6 JUL 2006

(PCT Article 36 and Rule 70)

PCT WIPO

Applicant's or agent's file reference 742587	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No. PCT/AU2005/000496	International filing date (day/month) 6 April 2005	/year) Priority date (day/month/year) 7 April 2004							
International Patent Classification (IPC) or national classification and IPC									
Int. Cl.									
C22B 15/06 (2006.01) C22B 5/10 (2006.01) C22B 5/12 (2006.01)									
Applicant									
AUSMELT LIMITED et al		· · · · · · · · · · · · · · · · · · ·							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total of 3	sheets, including this cover sheet.								
3. This report is also accompanied by AN	NEXES, comprising:								
a. (sent to the applicant and to th	e International Bureau) a total of s	heets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This report contains indications relatir									
X Box No. I Basis of the repo	ort								
Box No. II Priority									
Box No. III Non-establishme	ent of opinion with regard to novelty,	inventive step and industrial applicability							
Box No. IV Lack of unity of	Box No. IV Lack of unity of invention								
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
Box No. VI Certain documents cited									
Box No. VII Certain defects in the international application									
Box No. VIII Certain observations on the international application									
Date of submission of the demand Date of completion of this report									
25 November 2005	12 July 200	06							
Name and mailing address of the IPEA/AU	Authorized C	Officer							
AUSTRALIAN PATENT OFFICE									
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2005/000496

Box	No. I		asis of the report			·			
1.	With	regard to	the language, this	report is based on:					
The international application in the language in which it was filed									
		A translation of the international application into translation furnished for the purposes of: , which is the language of a							
	international search (under Rules 12.3(a) and 23.1 (b))								
	publication of the international application (under Rule 12.4(a))								
				ary examination (Rules 55.2(a)					
2. With regard to the elements of the international application, this report is based on (replacement sheets which has furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "of filed" and are not annexed to this report):									
	X			as originally filed/furnished					
	一	the descr	iption:						
	lI		pages	as originally filed/furnished					
			pages*	received by this Authority on	with the letter of				
			pages*	received by this Authority on	with the letter of				
		the claim	ıs:						
			pages	as originally filed/furnished	,				
			pages*	as amended (together with any		9			
			pages*	received by this Authority on					
			pages*	received by this Authority on	with the letter of				
		the draw	ings:						
			pages	as originally filed/furnished					
			pages*	received by this Authority on	with the letter of with the letter of				
			pages*	received by this Authority on					
		a sequen	ice listing and/or an	y related table(s) - see Suppleme	ental Box Relating to Seque	ence Listing.			
3.	. The amendments have resulted in the cancellation of:								
	the description, pages								
			the claims, Nos.	·					
			the drawings, shee	ts/figs	•				
	the sequence listing (specify):								
			-	I to the sequence listing (specify): -				
4.	4. This report has been established as if (some of) the amendments annexed to this report and listed below had made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental 70.2(c)).								
		the description, pages							
	the claims, Nos.								
	the drawings, sheets/figs								
	the sequence listing (specify):								
	any table(s) related to the sequence listing (specify):								
*	* If item 4 applies, some or all of those sheets may be marked "superseded."								

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2005/000496

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Statement							
No	ovelty (N)	Claims	1-15	YE	S		
		Claims		NO)		
Inv	ventive step (IS)	Claims	1-15	· · · YE	S		
	,	Claims		NC			
Inc	dustrial applicability (IA)	Claims	1-15	YE	S		
		Claims		NC			

2. Citations and explanations (Rule 70.7)

D1: US 1922301

NOVELTY (N), INVENTIVE STEP (IS)

Claims 1-15: D1 represents the closest available art. It discloses a method of converting matte to metal for metals such as copper or lead. The method consists of charging the converter with liquid matte, slag and metal to a desired level and introducing streams of air together with fuels and fluxes into the matte layer. This is effected by lances in the form of vertically adjustable tubes. The stream of air is directed downwardly into the converter, in such a way that the molten metal at the bottom of the converter is not affected. The claimed invention differs from D1 in that the matte is dispersed in the slag layer and the air is added to the combined layer of matte and slag. This feature is not disclosed or suggested by the prior art. Hence these claims are considered both novel and inventive.